

Bench

Bench Network Whitepaper

Layer 3 for RWA tokenization on Fraxtal Network

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Executive Summary

The tokenization of real-world assets (**RWA**) presents a huge opportunity to access liquidity for historically illiquid assets, provide investment opportunities to excluded groups (people with less income for example), transparently, agilely and economically manage the transactions on these assets.

The total addressable market (**TAM**) for RWA tokenization is estimated to reach between **\$10 to 15 trillion** by the end of the decade and is attracting the eye of major institutional participants.

The objective of this document is to present **Bench Network**, an innovative platform that uses blockchain technology, specifically the **Fraxtal Network**, to tokenize real-world assets (RWA). **Bench Network** aims to revolutionize the way traditional assets are managed, bought and sold by offering a secure, transparent and efficient blockchain-based solution.

Bench Network

Introduction

Tokenization of real-world assets (RWA) is a growing trend in the financial world, with the potential to fundamentally transform the way traditional assets are managed, bought and sold. However, until now, the adoption of this innovation has been limited by technological, regulatory and market access barriers. It is in this context that **Bench Network** was born, a revolutionary platform that leverages blockchain technology to democratize investment in real-world assets.

At **Bench Network**, we are committed to making real-world asset tokenization accessible to everyone, from retail investors to financial institutions, removing traditional barriers that have excluded many from participating in this lucrative market. With our **Fraxtal Blockchain**-based platform, we are challenging the status quo by offering a secure, transparent and efficient solution that allows investors to access a wide range of traditional assets in a completely new way.

The underlying technology of the Fraxtal Blockchain gives us the scalability to handle large volumes of transactions, the security to protect digital assets, and the flexibility to adapt to a variety of use cases. By utilizing this powerful blockchain infrastructure, **Bench Network** is redefining the boundaries of investing, allowing investors to participate in real-world assets in an unprecedented way.

Our vision at **Bench Network** is simple but ambitious: democratize real-world asset investing and unlock the potential of a more inclusive and efficient global marketplace. We firmly believe in the transformative power of tokenizing real-world assets, and are committed to leading the way toward a fairer, transparent, and decentralized financial future for all.

Problem

Investing in real-world assets has traditionally been dominated by high net worth and institutional investors, leaving out a large portion of the investing population. This exclusivity is due to a series of challenges inherent to the traditional asset market that make it difficult for retail investors to participate:

Limited Accessibility:

Real-world assets such as commercial real estate, artwork, and commodities often have a high cost of entry, making them inaccessible investments for many retail investors. Acquiring an entire property or a significant portion of an asset may be out of the financial reach of most people.

Opaque Transparency:

The process of investing in real-world assets is often opaque and opaque, making it difficult for investors to evaluate the authenticity, value and potential return of an asset. Lack of transparency can generate mistrust and deter investors from participating in the market.

Limited Liquidity:

Real-world assets are inherently illiquid, meaning it can be difficult to convert them into cash quickly without incurring significant costs and long waiting times. This limits investors' ability to adjust their portfolios or take advantage of investment opportunities in an agile manner.

Market Fragmentation:

The real-world asset market is fragmented and decentralized, making it difficult to trade and transact assets efficiently. The lack of a centralized and liquid market can create friction in the investment process and limit diversification opportunities.

In short, the real-world asset market presents a number of challenges that exclude many potential investors and make it difficult for those who have access to participate. These issues underscore the need for an innovative and disruptive solution that addresses traditional market limitations and democratizes real-world asset investing for all.

The solution: Bench Network

Bench Network is presented as the comprehensive solution to the challenges inherent to the real-world asset market. Our platform leverages blockchain technology, specifically the **Fraxtal Blockchain**, to offer a series of advantages that transform the way traditional assets are managed, bought and sold.

Tokenization of Real-World Assets:

The core of **Bench Network**'s solution is the tokenization of real-world assets (RWA). Through the tokenization process, we convert physical assets, such as commercial real estate, artwork, and commodities, into digital tokens on the Fraxtal Blockchain. These tokens represent fractional ownership of the underlying assets, allowing investors to acquire smaller portions of them.

Decentralized and Secure Platform:

Bench Network operates on the **Fraxtal Blockchain**, a blockchain known for its scalability, security and ability to manage a wide range of decentralized applications. Our platform offers a secure and transparent environment where investors can participate in the tokenization of real-world assets without concerns about the integrity of transactions or the protection of their digital assets.

Decentralized Secondary Markets:

We facilitate the liquidity of tokenized assets through decentralized secondary markets. These markets allow investors to buy and sell tokens efficiently, providing an avenue for continuous trading and profit realization. By democratizing access to liquidity, **Bench Network** removes one of the main barriers to participation in the real-world asset market.

Intuitive and Accessible Interface:

Our platform is designed to be intuitive and accessible to all types of users, from retail investors to financial institutions. We provide a seamless user experience that guides users through the process of investing in tokenized assets, from asset selection to trading on secondary markets.

Regulatory compliance:

At **Bench Network**, we are committed to complying with relevant regulations in all jurisdictions in which we operate. We work closely with legal and regulatory experts to ensure our platform meets the highest security and compliance standards.

In summary, **Bench Network** offers a comprehensive solution for the tokenization of real-world assets, addressing the accessibility, transparency and liquidity challenges that have limited participation in this market. With our Fraxtal Blockchain-based platform, we are democratizing investment in real-world assets and opening new opportunities for investors from all walks of life.

Advantages of Real-World Asset Tokenization with Bench Network

Expanded Accessibility

Bench Network democratizes real-world asset investing by allowing investors of all levels to access investment opportunities traditionally reserved for financial institutions or high net worth investors. By fractionating ownership of assets and allowing the acquisition of smaller parts through digital tokens, our platform opens the doors to a wide range of retail investors.

Improved Transparency

Tokenization of real-world assets on the Fraxtal Blockchain offers an immutable and transparent record of all transactions, ensuring the integrity and traceability of ownership. Investors can easily verify the authenticity and history of an asset, increasing trust and reducing the risk of fraud or manipulation.

Continuous Liquidity

Bench Network provides liquidity to real-world assets through decentralized secondary markets, where investors can efficiently buy and sell tokens at any time. This continuous and accessible liquidity allows investors to easily adjust their portfolios, take advantage of investment opportunities and mitigate risks without the limitations of traditional markets.

Portfolio Diversification

By tokenizing a wide range of real-world assets, from commercial real estate to artwork and commodities, **Bench Network** offers portfolio diversification opportunities that can improve investment stability and performance. Investors can spread their capital across different asset classes and reduce exposure to specific market risks.

Efficiency and Reduced Costs

Tokenizing real-world assets on the Fraxtal Blockchain eliminates intermediaries and reduces costs associated with traditional investing, such as brokerage commissions and legal fees. By automating processes such as token issuance and smart contract execution, **Bench Network** increases efficiency and offers a more economical investment experience for users.

Potential Use Cases in Bench Network

The following examples illustrate the diversity of real-world assets that can be tokenized through **Bench Network**, opening up new investment opportunities and democratizing access to traditionally exclusive asset classes.

1. Commercial Properties

Tokenization of commercial properties, such as office buildings, shopping centers and industrial complexes.

Example: A prime office building in the center of a major city can be tokenized, allowing investors to acquire fractions of the property and benefit from rental income and appreciation in property value.

2. Works of Art

Tokenization of renowned works of art, such as paintings, sculptures and digital art.

Example: An iconic work of art by a famous artist can be tokenized, allowing investors to own parts of the work and participate in its valuation over time, without the need to be art collectors.

3. Basic Products

Tokenization of physical commodities, such as gold, silver, oil, and agricultural products.

Example: A physical gold bar can be represented by digital tokens, allowing investors to own fractions of the precious metal and benefit from its intrinsic value as a store of value and hedge against inflation.

4. Residential Real Estate

Tokenization of residential properties, such as single-family homes, condominiums, and apartments.

Example: A luxury residence in an exclusive location can be tokenized, allowing investors to hold stakes in the property and earn rental income or capital gains.

5. Real Estate Ventures

Tokenization of real estate projects in development, such as building construction, residential and commercial developments.

Example: A residential complex development project can be tokenized, allowing investors to finance the construction and make profits once the project is completed and the assets generate income.

6. Art Collections and Collectibles

Tokenization of art collections, luxury cars, fine wines and other collectibles.

Example: A private collection of classic cars can be tokenized, allowing investors to hold stakes in the collection and profit from its valuation and sales potential.

7. Traditional Financial Instruments

Tokenization of traditional financial instruments, such as stocks, bonds and investment funds.

Example: Shares of a publicly traded company can be tokenized, allowing investors to own fractions of shares and receive dividends proportional to their participation. Likewise, corporate or government bonds can be tokenized, allowing investors to access predictable income streams.

8. Alternative Investment Funds

Tokenization of alternative investment funds, such as venture capital funds, hedge funds, and real estate funds.

Example: A venture capital fund that invests in startups can be tokenized, allowing investors to gain exposure to a diversified portfolio of startups and benefit from potential returns from investing in innovation and growth.

9. Digital Commodities

Tokenization of physical and digital commodities, such as gold, oil, cryptocurrencies and stability tokens.

Example: An oil futures contract can be represented by digital tokens, allowing investors to speculate on the future price of oil and profit if the price increases. Similarly, fiat-backed stability tokens or collateral assets can provide exposure to stablecoins and act as a haven against cryptocurrency market volatility.

10. Financial Derivatives

Tokenization of financial derivatives, such as options, futures and swaps.

Example: A call option on a company's stock can be tokenized, allowing investors to speculate on the future price of the stock and profit if the price rises above the strike price. Futures on stock indices or commodities can also be tokenized, offering exposure to price movements in specific markets.

These examples illustrate the diversity of real-world assets that can be tokenized through Bench Network, opening up new investment opportunities and democratizing access to traditionally exclusive asset classes.

Tokenization Process in Bench Network

The process detailed below ensures that tokenization on **Bench Network** is carried out efficiently, securely and in accordance with legal and financial best practices. By following this rigorous process, **Bench Network** offers investors the trust and transparency necessary to participate in the tokenization of real-world assets successfully and profitably.

1. Asset Selection

Identification of Eligible Assets: **Bench Network** begins the tokenization process by carefully selecting real-world assets that are suitable for tokenization. This can include a variety of assets, such as commercial real estate, artwork, commodities, and more.

Viability Assessment: A thorough assessment of each potential asset is performed to determine its suitability for tokenization. This involves analyzing factors such as authenticity, market value, liquidity and regulatory requirements.

2. Due Diligence

Investigation and Verification: Extensive due diligence is carried out to ensure the authenticity and legality of the selected assets. This may involve verifying property titles, assessing asset quality, and reviewing any applicable regulatory requirements.

Legal and Financial Audit: We work closely with legal and financial experts to ensure that the tokenization process complies with all relevant laws and regulations.

3. Tokenization

Token Issuance: Once due diligence is completed and the viability of the asset is guaranteed, Bench Network proceeds to the issuance of tokens on the Fraxtal Blockchain. Each token represents a fractional share in the underlying asset and is backed by corresponding property rights.

Token Allocation: Newly issued tokens are allocated to investors according to their financial contributions. This may involve proportional allocation of tokens based on the amount invested or distribution of tokens based on predefined agreements between the parties involved.

4. Offer and Negotiation

Initial Token Offering (ITO): **Bench Network** may conduct an initial token offering (ITO) to make newly issued tokens available to investors. During the ITO, investors can acquire tokens by investing equity or digital assets.

Trading in Secondary Markets: Once the ITO is completed, the tokens can be traded in decentralized secondary markets. **Bench Network** facilitates continuous trading of tokens, allowing investors to buy, sell or exchange their holdings according to their needs and preferences.

5. Post-Tokenization Management

Maintenance and Updating: **Bench Network** takes care of the ongoing maintenance of the tokenized assets, including property management, dividend distribution, and any necessary updates or improvements to the platform.

Regulatory Compliance: Ongoing compliance with all relevant laws and regulations related to the tokenization of real-world assets is monitored and ensured.

Tokenomics

Token details

- Token name: **Bench**
- Token Symbol: **BENCH**
- Total Token Supply: **10,000,000,000 BENCH (10 billion)**
- Decimals: **18**

Token opportunities

Owning **BENCH** not only gives you access to real-world asset investment opportunities, but also gives you power and voice in the governance of the Bench Network platform. As a token holder, you have the ability to influence key decisions, contribute to the development of the platform and benefit from an active and collaborative community of investors.

1. **Access to Investment Opportunities:** Owning BENCH gives you access to a wide range of investment opportunities in real-world tokenized assets through the Bench Network platform. You can engage in the acquisition and trading of fractions of traditional assets, such as commercial real estate, artwork, and commodities, diversifying your investment portfolio significantly.
2. **Participation in Platform Decisions:** BENCH holders have the opportunity to participate in the governance of the Bench Network platform, contributing to important decisions that affect the development and future of the platform. This includes votes on protocol upgrades, tokenization policy changes, and key strategic decisions.
3. **Participation Rewards:** Active participation in Bench Network governance may be rewarded with additional incentives in the form of BENCH or other benefits. This may include additional token distributions, privileged access to new investment opportunities, or discounts on transaction fees on the platform.
4. **Influence on Platform Development:** BENCH holders have the ability to influence the development and future direction of the Bench Network platform through governance proposals and voting. They can voice their opinions on new features, usability improvements, and compliance policies, helping to shape the tokenized asset investment ecosystem.
5. **Transparency and Responsibility:** Token-based governance like BENCH promotes transparency and accountability in decision-making, as each token holder has the opportunity to express their opinion and vote on issues relevant to the community. This creates a democratic and participatory environment where the interests of the investment community are prioritized.
6. **Community Benefits:** Being part of the BENCH holder community gives you the opportunity to connect with other investors, share knowledge and experiences, and collaborate on initiatives aimed at promoting the growth and adoption of the **Bench Network** platform. The

community plays a critical role in the long-term success of the platform and creating value for all participants.

Token Distribution

Initial Token Offering (ITO)

Percentage: **45%**

Quantity: **4,500,000,000 BENCH**

Usage: **These tokens are intended for sale during the initial token offering (ITO) in different stages, where investors can acquire BENCH by investing equity or digital assets.**

Platform Reservation

Percentage: **20%**

Quantity: **2,000,000,000 BENCH**

Usage: **These tokens are reserved for future use in the development and maintenance of the Bench Network platform, including funding improvements, upgrades and continued operations.**

Team and Advisors

Percentage: **15%**

Quantity: **1,500,000,000 BENCH**

Vesting: **A vesting period is established for tokens assigned to the core team and advisors to align their interests with the long-term success of the project.**

Liquidity Reserve

Percentage: **10%**

Quantity: **1,000,000,000 BENCH**

Usage: **These tokens are reserved to provide initial liquidity on the decentralized secondary markets where BENCH tokens and other RWA tokens will be traded post-ITO.**

Community Development and Marketing

Percentage: **10%**

Quantity: **1,000,000,000 BENCH**

Use: **These tokens are intended for community development, marketing and promotional activities to increase awareness and adoption of the Bench Network platform.**

Bench Network: The Blockchain for Real-World Asset Tokenization

Bench Network, as a layer 3, will represent an exciting opportunity for the tokenization of real-world assets and the transformation of financial markets through the use of blockchain technology. With its specialized approach, high scalability and interoperability capacity, **Bench Network** has the potential to open new frontiers in decentralized investment and financing, through a new network supported by the security and scalability of **Fraxtal Network** as the **layer 2**.

1. **Specialized in Asset Tokenization:** **Bench Network** is designed specifically for the tokenization of real-world assets, offering a streamlined and secure environment for the issuance, management and trading of tokens backed by physical assets. This ensures an intuitive and efficient user experience for investors and token issuers.
2. **High Scalability and Performance:** Being built on Fraxtal, **Bench Network** inherits its scalability and high-performance capabilities. This means that the network can handle a large volume of transactions quickly and efficiently, enabling continuous liquidity and a seamless user experience even during times of high demand.
3. **Security and Trust:** **Bench Network** leverages Fraxtal's robust security, including its consensus algorithm and attack-resistant architecture. This ensures the integrity and immutability of data on the blockchain, providing a trusted and secure environment for asset tokenization and smart contract execution.
4. **Interoperability with Existing Ecosystems:** **Bench Network** supports interoperability standards and communication protocols, making it easy to integrate with other existing blockchain ecosystems and financial systems. This enables the seamless transfer of tokenized assets between different platforms and markets, expanding investment and trading opportunities.
5. **Flexibility and Customization:** **Bench Network** offers flexibility and customization in smart contract and application development, allowing developers to adapt blockchain functionality to meet the specific needs of various use cases. This opens a range of possibilities for innovation in the tokenization of assets and the creation of new business models.

Roadmap

This roadmap represents a complete view of the project's development, from initial preparation to establishing itself as a leader in the tokenization of real-world assets. With a focus on innovation, adoption and continuous improvement, the project has the potential to transform financial markets and democratize access to investment in traditional assets.

Phase 1: Preparation (2024 Q3)

- **Research and Planning:** Conduct market studies and feasibility analysis to define the objectives and scope of the project.
- **Team Building:** Recruit a diverse team of blockchain, software development, finance, and marketing experts.
- **Concept Development:** Refine and detail the project concept, identifying market needs and innovation opportunities.

Phase 2: Product Development (2024 Q4)

- **Platform Development:** Build and optimize the platform for tokenization of real-world assets, including key functionalities such as token issuance, asset management and trading.
- **Testing and Iterations:** Conduct extensive product testing and perform iterations based on user feedback and market testing.
- **Brand Development and Marketing:** Develop a strong brand strategy and launch marketing campaigns to increase product awareness and adoption.

Phase 3: Launch and Adoption (2024 Q4)

- **Product Launch:** Launch the platform to the public, offering access to real-world asset tokenization and associated investment opportunities.
- **Incentive Program:** Implement an incentive program to attract investors and users to the platform, offering rewards for participation and referrals.
- **Community Development:** Foster the growth of an active community around the platform, offering support and educational resources.

Phase 4: Expansion and Continuous Improvement (2025)

- **Scalability and Optimization:** Improve the scalability and performance of the platform to support a higher volume of transactions and users.
- **Global Expansion:** Expand the presence of the platform internationally, exploring new markets and growth opportunities.
- **Release Updates:** Implement regular product updates to introduce new features and improve user experience.
- **Bench Network:** Launch of blockchain on Fraxtal Network for tokenization and compliance.

Phase 5: Consolidation and Dominion (2025 and forever)

- **Mass Adoption:** Achieve mass adoption of the platform as a leader in the tokenization of real-world assets, establishing standards in the market.
- **Development of Strategic Partnerships:** Establish partnerships with key companies and organizations to expand the reach and usefulness of the platform.
- **Continuous Innovation:** Remain at the forefront of innovation in asset tokenization, exploring new technologies and applications to remain competitive in the market.

Conclusion

The real-world asset tokenization project, developed along this roadmap, represents an exciting and transformative opportunity in the financial and technological landscape. From the initial research and planning phase to launch and mass adoption of the platform, we will work hard to build a robust and scalable solution that democratizes access to investing in traditional assets.

Throughout this process, key challenges, such as scalability, security and interoperability, have been identified and addressed to ensure that the platform can meet market demands and deliver an exceptional user experience. Strategic alliances will be established, an active community will be developed, and an incentive program will be implemented to encourage participation and continued growth.

The platform will be designed to offer significant benefits to both asset issuers and investors, providing access to diversified investment opportunities, improved liquidity and transparency in financial markets. Additionally, it will integrate the tokenization of real-world assets into the existing blockchain ecosystem, creating new possibilities for innovation in decentralized finance and cross-platform collaboration.

In short, this project will represent a step forward towards a more inclusive, efficient and transparent future in real-world asset investment. With a focus on continuous innovation, mass adoption and constant improvement, we are committed to leading the way in asset tokenization and empowering a new generation of investors around the world.